

Education

Harvey Mudd College

Claremont, CA

B.S., JOINT MAJOR IN COMPUTER SCIENCE AND MATHEMATICS | TOTAL GPA 3.93 | MAJOR GPA 4.00

Dec 2019

- CS: Deep Learning, Advanced Topics in Algorithms, Big Data Analytics, Data Structures and Program Development, Programming Languages, Computability and Logic
- Math: Differential Topology, Measure Theory, Advanced Linear Algebra, Representation Theory, Galois Theory, Intermediate Probability, Multivariable Calculus, Combinatorics

Hong Kong University of Science and Technology

Clear Water Bay, HK

STUDY ABROAD, COMPUTER SCIENCE AND ENGINEERING

Fall 2019

For a more complete list of courses, visit https://www.grenmester.com/about/coursework.pdf.

Research Experience _____

UCLA Computational and Applied Mathematics REU

Los Angeles, CA

Jun 2019 - Aug 2019

RESEARCH INTERN WORKING ON CRIME MODELING

- Worked with 4 other student researchers to identify patterns from Los Angeles homicide data
- Developed zonal optical character recognition pipeline for text extraction from old documents using OpenCV
- Performed topic modeling and prediction using a modified latent Dirichlet allocation model built using PyTorch
- Presented work at the 2019 Joint ATD+AMPS Annual Workshop

Harvey Mudd Clinic Program, EDR

Claremont, CA

Sep 2018 - May 2019

PROJECT MANAGER WORKING ON OPTICAL CHARACTER RECOGNITION

- Led 4 other students as the spring project manager to develop image processing and feature extraction software
- Built custom rotation-invariant CNN model with PyTorch to extract and recognize handwritten characters

Internship Experience_____

Facebook Menlo Park, CA

SOFTWARE ENGINEER INTERN WORKING ON VIDEO PROCESSING

May 2018 - Aug 2018

- Applied AR/VR effects on videos by processing frames sequentially using C++
- Created an intuitive UI using React and PHP/Hack for applying AR/VR effects

BMC Software Santa Clara, CA

COMPUTER SCIENCE INTERN WORKING ON INNOVATION SUITE

Dec 2016 - Jan 2017

- · Debugged software for businesses to easily create digital management apps with a drag-and-drop interface
- Collaborated with 7 interns to develop 2 applications using Innovation Suite with Java, Maven, and AngularJS

For a list of projects, visit https://www.grenmester.com/about/projects/.

Teaching Experience ____

Academic Excellence (AE) Tutor

Claremont, CA

Sep 2018 - May 2019

HARVEY MUDD COLLEGE

• Tutored in a team of 12 math AE tutors for 6 math core courses and 3 math elective courses

• Tutored in a team of 7 chemistry AE tutors for 2 chemistry core courses

Teaching Assistant

Claremont, CA

HARVEY MUDD COLLEGE

Sep 2018 - Dec 2018

• Assisted with classroom lectures for an Abstract Algebra I class of ~20 students

Individual Private Tutor

Claremont, CA Sep 2017 - May 2018

HARVEY MUDD COLLEGE

- [Spring 2018] Discrete Mathematics
- [Spring 2018] Chemistry in the Modern World II
- [Spring 2018] Introduction to Biology
- [Fall 2017] Multivariable Calculus
- [Fall 2017] Chemistry in the Modern World I

Course Tutor Claremont, CA

HARVEY MUDD COLLEGE

Aug 2017 - Apr 2018

- [Spring 2018] Held tutoring hours for Computability and Logic, ~80 students
- [Fall 2017] Held tutoring hours for Abstract Algebra I, ~35 students

Course Grader Claremont, CA

Harvey Mudd College, Pomona College

Jan 2017 - Current

- [Fall 2019] Advanced Topics in Algorithms, ~35 students
- [Spring 2019] Advanced Linear Algebra, ~30 students
- [Spring 2018] Computability and Logic, ~80 students
- [Fall 2017] Abstract Algebra I, ~35 students
- [Spring 2017] Discrete Mathematics, ~90 students

Math Tutor

Millbrae, CA

IVY ACADEMICS

- Instructed 2 high school students in AP Calculus and AP Statistics
 Instructed 3 high school students in SAT math
- Instructed 2 elementary school students in competition math

Redwood Middle School Math Club Coach

Saratoga, CA

SARATOGA MATH CLUB

Sep 2015 - Jan 2016

Claramant CA

Jun 2015 - Jun 2016, Jun 2017 - Aug 2017

Coached ~30 middle school students with 3 other coaches in competition math

Leadership _____

Aug 2018 - Nov 2019 Caltech Harvey Mudd Math Competition, Lead Organizer	Claremont, CA
Sep 2018 - May 2019 HMC Math Club , President	Claremont, CA
Sep 2018 - May 2019 HMC Algorithms Club, Officer	Claremont, CA
Sep 2018 - May 2019 5C Badminton Club , President	Claremont, CA

Extracurriculars

Doc 2019 Butnam Math Compatition Top 500

Dec 2018 Futuam Math Competition, 10p 300	Clarentoni, CA
Nov 2018 International Collegiate Programming Contest, SoCal Regional, 8th Place	Riverside, CA
Dec 2017 Putnam Math Competition , Top 500	Claremont, CA
Nov 2017 Caltech Harvey Mudd Math Competition, Grader	Claremont, CA
Nov 2017 International Collegiate Programming Contest, SoCal Regional, 19th Place	Riverside, CA
Nov 2016 Caltech Harvey Mudd Math Competition, Grader	Pasedena, CA
Sep 2016 HMC Biennial Conference for Sustainable Design and Solutions, Volunteer	Pasedena, CA

For more extracurriculars, visit https://www.grenmester.com/about/about-me/.

Skills_____

Programming Languages Python, C++, Java, Javascript, PHP, Haskell

Other Skills Git, Bash/Zsh, LaTeX, Jupyter Notebook, Flask, Node, React, Neovim, Emacs, Tmux

Languages Cantonese (bilingual), Mandarin (conversational), Spanish (conversational), Japanese (elementary)